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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,165	12/31/2003	J. Nelson Wright	341148021US	5006
69414	7590 07/30/2007		EXAMINER	
CALYPSO MEDICAL / PERKINS COIE, LLP P.O. BOX 1247			KHOLDEBARIN, IMAN K	
SEATTLE, WA	A 98111-1247 •		ART UNIT PAPER NUMBER	
	•		MAIL DATE	DELIVERY MODE
			07/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

			$\widehat{\mathcal{A}}$			
		Application No.	Applicant(s)			
Office Action Summary		10/750,165	WRIGHT ET AL.			
		Examiner	Art Unit			
		I Kenneth Kholdebarin	3737			
<i>The</i> Period for Rep	MAILING DATE of this communication app ly	ears on the cover sheet with the c	orrespondence address			
WHICHEVE - Extensions of after SIX (6) If NO period for Failure to rep Any reply rec	NED STATUTORY PERIOD FOR REPLY ER IS LONGER, FROM THE MAILING DATE time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. For reply is specified above, the maximum statutory period way within the set or extended period for reply will, by statute, eived by the Office later than three months after the mailing at term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	the mailing date of this communication. (35 U.S.C. § 133).			
Status						
1)☐ Resp	onsive to communication(s) filed on	=•				
2a)☐ This a	action is FINAL . 2b)⊠ This	action is non-final.				
3) Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
close	d in accordance with the practice under <i>E</i>	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.			
Disposition of	Claims					
4)⊠ Claim	n(s) <u>1-27 and 32-38</u> is/are pending in the a	application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
6)⊠ Claim						
7) Claim	Claim(s) is/are objected to.					
8) Claim	Claim(s) are subject to restriction and/or election requirement.					
Application Pa	pers					
9)∏ The s	pecification is objected to by the Examine	r.				
<i>,</i> —	rawing(s) filed on is/are: a)☐ acce		Examiner.			
· —	ant may not request that any objection to the					
Repla	cement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)∏ The o	ath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under	35 U.S.C. § 119					
12)∏ Ackno a)∏ All	•—		-(d) or (f).			
1.	Certified copies of the priority documents	s have been received.				
2.	Certified copies of the priority documents	·				
3.	Copies of the certified copies of the prior	•	d in this National Stage			
	application from the International Bureau	, ,,				
* See the	e attached detailed Office action for a list	of the certified copies not receive	a.			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 11/15/06,08/28/06.

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other: ____.

5) Notice of Informal Patent Application

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claim 1,6-11,16,19,23,32 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1,4, 7, 10 11,12 and 13 of U.S. Patent No. 7,026,927. Although the conflicting claims are not identical, they are not patentably distinct from each other because all are claiming the same system using the relevant method for performing the same function.

Furthermore claims are not patentably distinct because the instant claims are broader \$ therefore anticipated by the conflicting claims. The instant claims are broader in that they are not specific to ""exciting pulses are emitted in a non-periodic manner".

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Da Silva

et al. (US 6,729,336).

Re Claim 1-10: Da Silva teaches a method and apparatus which detect in stent restenosis. This

system contains electromagnetic wave transmitter to excite the stent an acoustic sensor to detect

stent acoustic oscillation. Da Silva discloses that an ultrasound transducer that detects the excited

ultrasound oscillations for analysis to detect a change in the aperture (i.e., lumen) for blood flow

within the stent. Furthermore Da Silva discloses RF excitation, Probing RF resonant modes,

Detecting RF radiation. Using Radio Frequency EM energy to interrogate the stent, the

frequency of the RF energy is scanned, and the response of the stent is detected, in reflection,

absorption, scatter, or other characteristic EM phenomena, by detecting the modified RF energy.

This includes the detection of shifted frequencies that are produced by modifications to the stent.

(Fig. 5, col 3, line 19-25).

In another embodiment Da Silva shows the patient's chest is placed between a pair of coils or

near an antenna and the stent excited over a range of EM wave frequencies and modulation

frequencies. The EM wave range of frequencies is selected to effectively couple energy into the

stent (e.g., 100 MHz-10 GHz). The modulation frequencies range is selected to cover the

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characteristic acoustic resonance frequencies of the stent (e.g., 100 kHz-1 MHz). The ultrasound (or acoustic) detector measures the generated acoustic signal as a function of the EM wave frequencies. The measured acoustic spectrum will change when in-stent restenosis occurs, (Col. 4, line 16-25).

Re Claim 11- 15: Embodiments of the present invention utilize an electromagnetic wave (EM) transmitter (100 MHz-1 GHz) to excite acoustic oscillations in a stent that are then detected using an ultrasound transducer. FIG. 1 shows the key components of an embodiment of the system. The system includes an electronic control unit 30 that is connected through a cable 40 to an electromagnetic wave transmitter 50 and an ultrasound detector 60. The electromagnetic wave is transmitted through the chest of the patient 10 and excites the implanted stent 20. When excited the implanted stent 20 generates acoustic waves that are detected by the ultrasound detector 60. The control unit 30 can generate electromagnetic waves over a wide frequency range that can be effectively coupled into the conductive stent 20. The control unit 30 can include a computer for data analysis, and archiving. A monitor 70 is used to guide the user and display results.

4. Claims 1-27 and 32-38 as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Mate et al. (US 2002/0193685).

Re Claim 1-27 and 32-38: Mate discloses the system (10) and method of tracking the position of a target within a body. The system is a target locating and monitoring system usable with a radiation delivery source that delivers selected doses of radiation to a target in a body. The system includes one or more excitable markers positionable in or near the target, an external

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excitation source that remotely excites the markers to produce an identifiable signal, and a plurality of sensors spaced apart in a known geometry relative to each other. A computer is coupled to the sensors and configured to use the marker measurements to identify a target isocenter within the target. (Fig. 1, 12 and 15)

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applican'ts disclosure (Please see attached "notice of references cited").

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I Kenneth Kholdebarin whose telephone number is 571-270-1347. The examiner can normally be reached on M-F 8 AM- 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Iman Kenneth Kholdebarin IKK 07/18/2007

BRIAN'L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700